



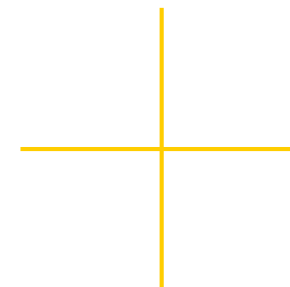
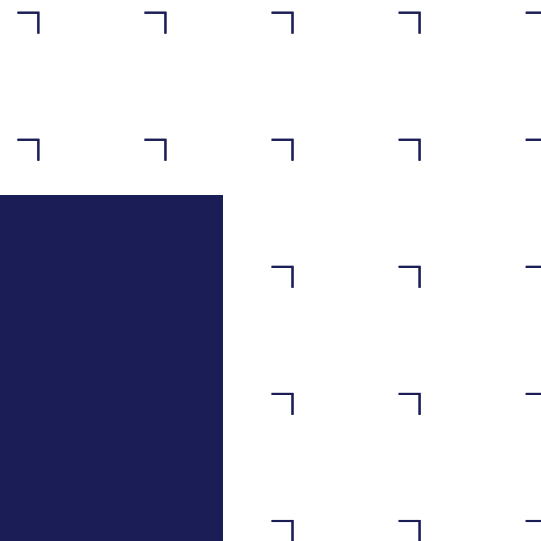
Zero Emission Shipping Symposium



Strategic Perspectives for Green Shipping

Dr.-Ing. Christopher Stanik, NOW GmbH

Hamburg | 25th June 2025



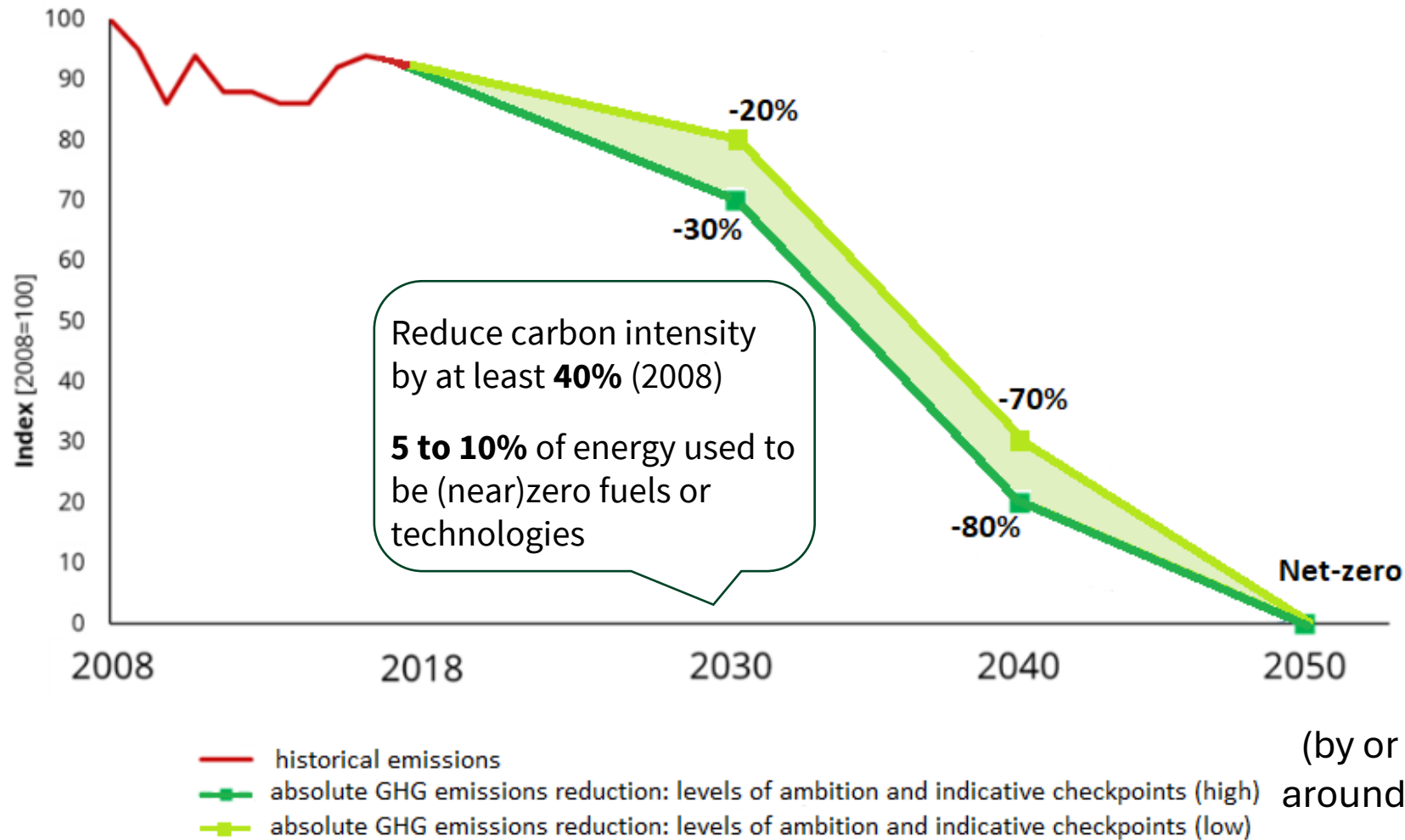


Regulatory framework drives sustainable shipping: IMO GHG Strategy, Net-Zero Framework, Safety Guidelines and EU Fit for 55



IMO GHG Strategy 2023

Roadmap for marine transport sector

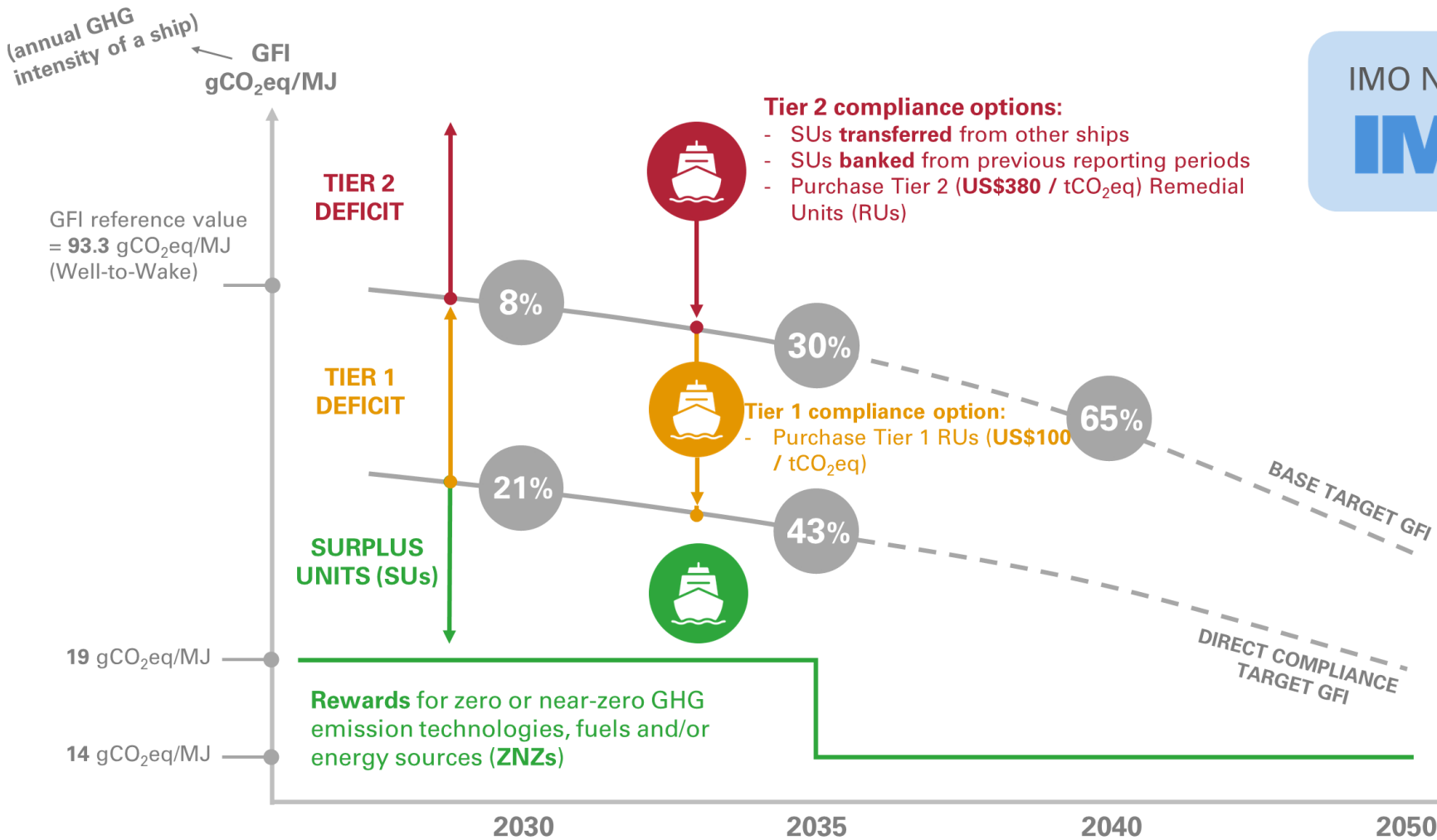


- Sets clear timelines for finalization of **mid-term measures**: to be approved and adopted in 2025, for entry into force in 2027
- Many other elements (guiding principles, barriers, supportive measures, safety and human element, etc.): **a framework for action by IMO and the sector as a whole**
- Review in 2028

Source: IMO (2025)

IMO Net-Zero Framework

GFI mechanism for market uptake of ZNZ-Technologies, -fuels and –energy sources



Other disbursement of revenue to promote a **just and equitable transition** in States by facilitating environmental and climate protection, adaptation and resilience building within the boundaries of the energy transition in shipping

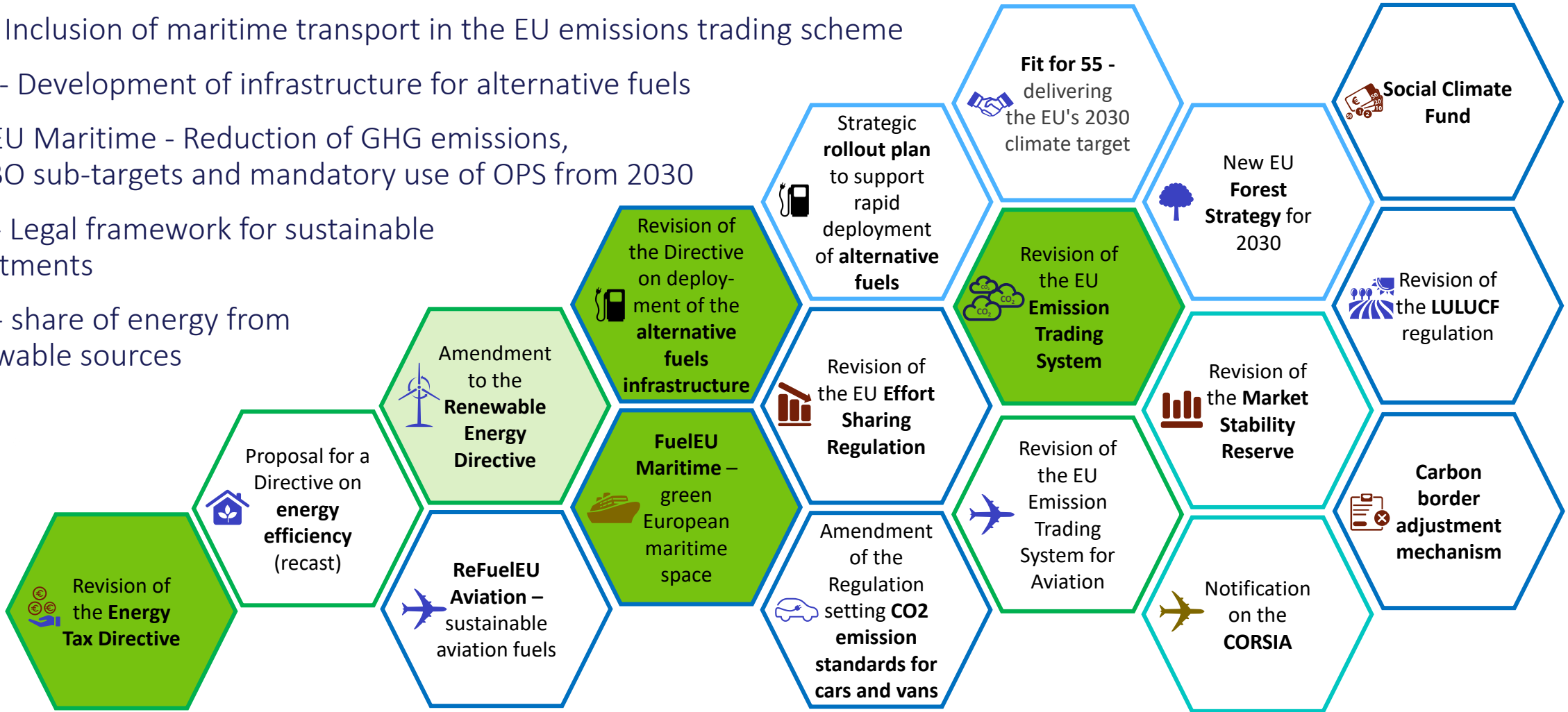
Source: IMO (2025)

EU Fit for 55

What are the requirements of the EU package of measures and for whom?



- ETS - Inclusion of maritime transport in the EU emissions trading scheme
- AFIR - Development of infrastructure for alternative fuels
- FuelEU Maritime - Reduction of GHG emissions, RFNBO sub-targets and mandatory use of OPS from 2030
- ETD - Legal framework for sustainable investments
- RED - share of energy from renewable sources





Industry and Policy in Motion: Market initiatives and national action planning



Some Examples for Green Markt Initiatives

How the shipping industry is already preparing for the future

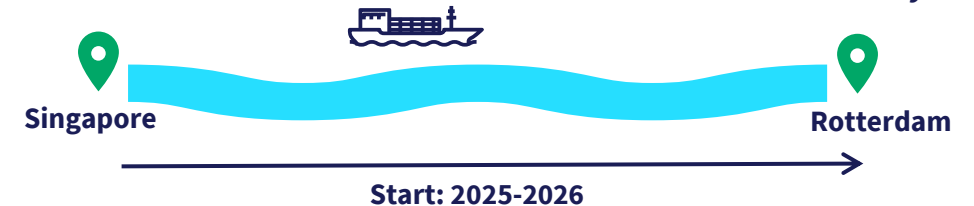


- IMO-Singapore NextGEN Award **winning Strategy** for development of a **Route-based Action Plan Methodology**
- **18 Members.** a diverse range of stakeholders: port authorities, energy producers, banks, shipping lines, and logistics companies...
- Fuels: work on the implementation of both Methanol and Ammonia as fuels for vessels.

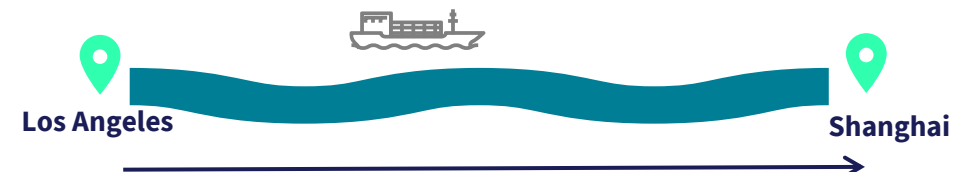
Source: [The Silk Alliance - Green Corridor Cluster Initiative](#)
[MDH wins IMO NextGEN Connect Challenge](#) | [The Decarb Hub](#)



- **Over 40 Members** entirely cargo-owners
- First ZEMBA tender winner: Hapag-Lloyd is the winner of its first tender for ocean shipping based on **biomethane** that achieves at least a **90 percent reduction of greenhouse gases**
- Purchase of over **1 bn TEU-miles** of zero-emission shipping
- Avoid at least 82.000 metric tonnes of CO2e over two years



- Second ZEMBA tender : First commercial E-Fuels
- **86 bn tonne-nautical miles** demand ~**1.5M TEUs** equivalent
- Bids due spring 2025 (under approval)



Source: [ZEMBA: Zero Emission Maritime Buyers Alliance wählt Hapag-Lloyd](#)
[ZEMBA's upcoming tender zeroes in on first commercial e-fuels deployment - Offshore Energy](#)



German National Action Plan for Climate-friendly Shipping (NAPS)

Action fields, measures, stakeholder participation process



Kick-off event for NAPS Development



Kick-off event + Stakeholder-Workshops in Berlin for NAPS Development



Stakeholder-Workshop in Hamburg for NAPS-Development



5 Action Fields



45 Measures

1	Alternative propulsion and energy system	Advance technology maturity and support market maturity and scale-up
2	Supply with Climate-friendly energy carriers	Creating a common understanding of the plans for the future energy mix, including necessary bunker/shore power concepts and capacities
3	Fleet modernization	Accelerate entrepreneurial action by actively driving innovation, consciously accepting risks and developing new business models
4	Industrial Policy	Creating close cooperation between the shipping sector and industry to achieve climate protection goals and strengthen competitiveness
5	Green Shipping Corridors	Supporting project initiatives to establish specific and emission-free trade routes

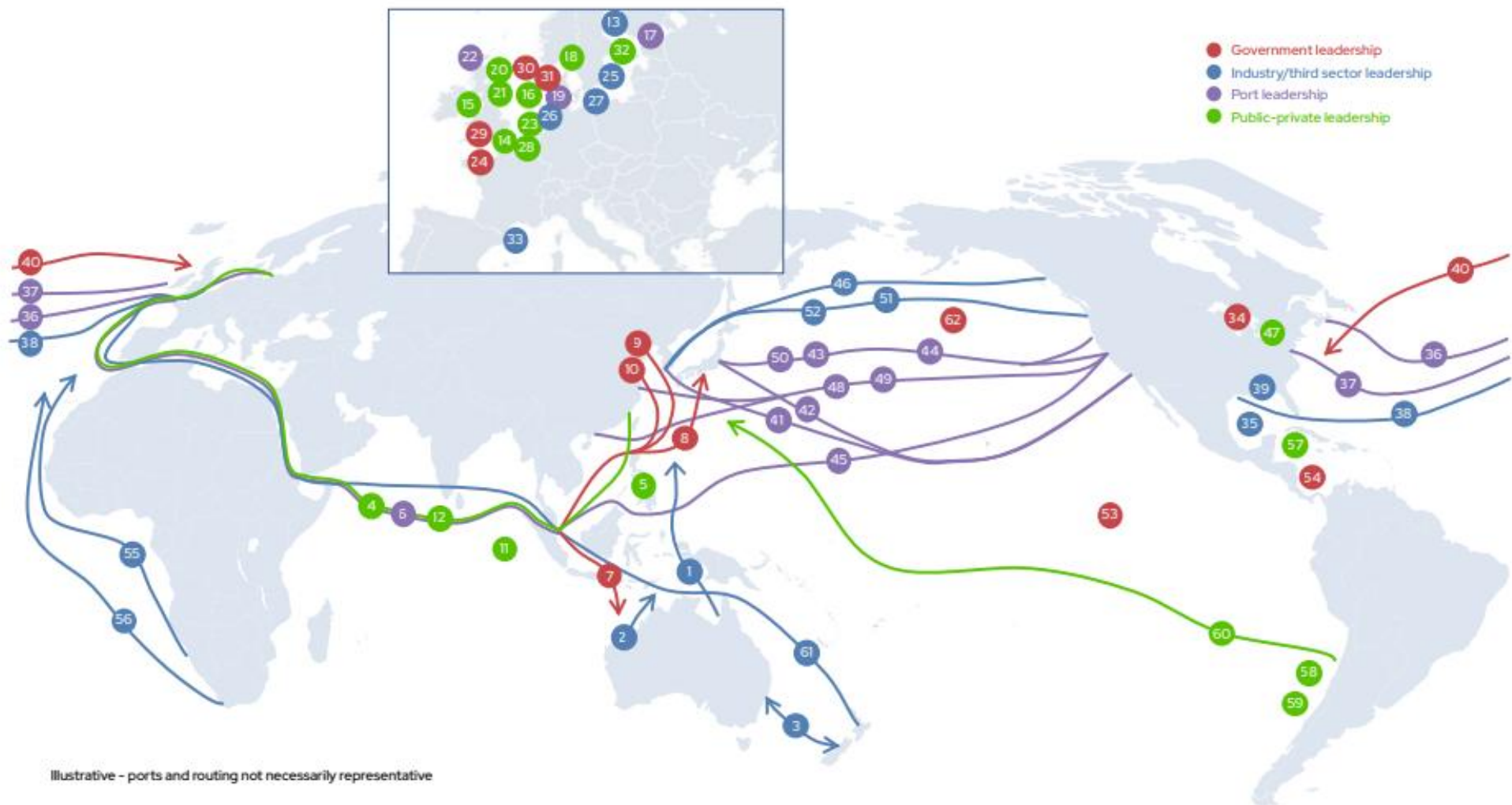


Green Shipping Corridors: First-Mover Projects for Climate- neutral Shipping Routes



Global Planning of Green Shipping Corridors

International partnerships for climate-neutral marine traffic model routes



Green Shipping Corridors

Example market initiatives to drive the transition

Source: Port of Hamburg | Green Shipping Corridor



Hamburg-Shanghai sign MoU



Trelleborg-Lübeck sign MoU

Source: [Trelleborg, Lübeck und TT-Line wollen bis 2040 frei von fossilen Brennstoffen sein](#)



Oslo-Rotterdam sign MoU

Source: [Rotterdam and Oslo to create a green corridor with Samskip's hydrogen-fueled ships - Offshore Energy](#)

Hamburg Shanghai



Suitable **shore power connections** for all **container terminals** in each port



Use of **climate-friendly fuels**



Segment: Container ships

Actors: HPA, Shanghai International Port Group (SIPG)
Shanghai Municipal Transportation Commission (SMTC)
COSCO Shipping Lines



Lübeck Trelleborg



More shore power connection for TT-Lines in both ports. **Wind turbines** inaugurated in Trelleborg .



Use of **climate-friendly fuels**



Segment: Ferries.

Actors: Port of Lübeck, Port of Trelleborg, TT-Lines



Oslo Rotterdam



Use of hydrogen as fuel



Segment: Container, short sea shipping

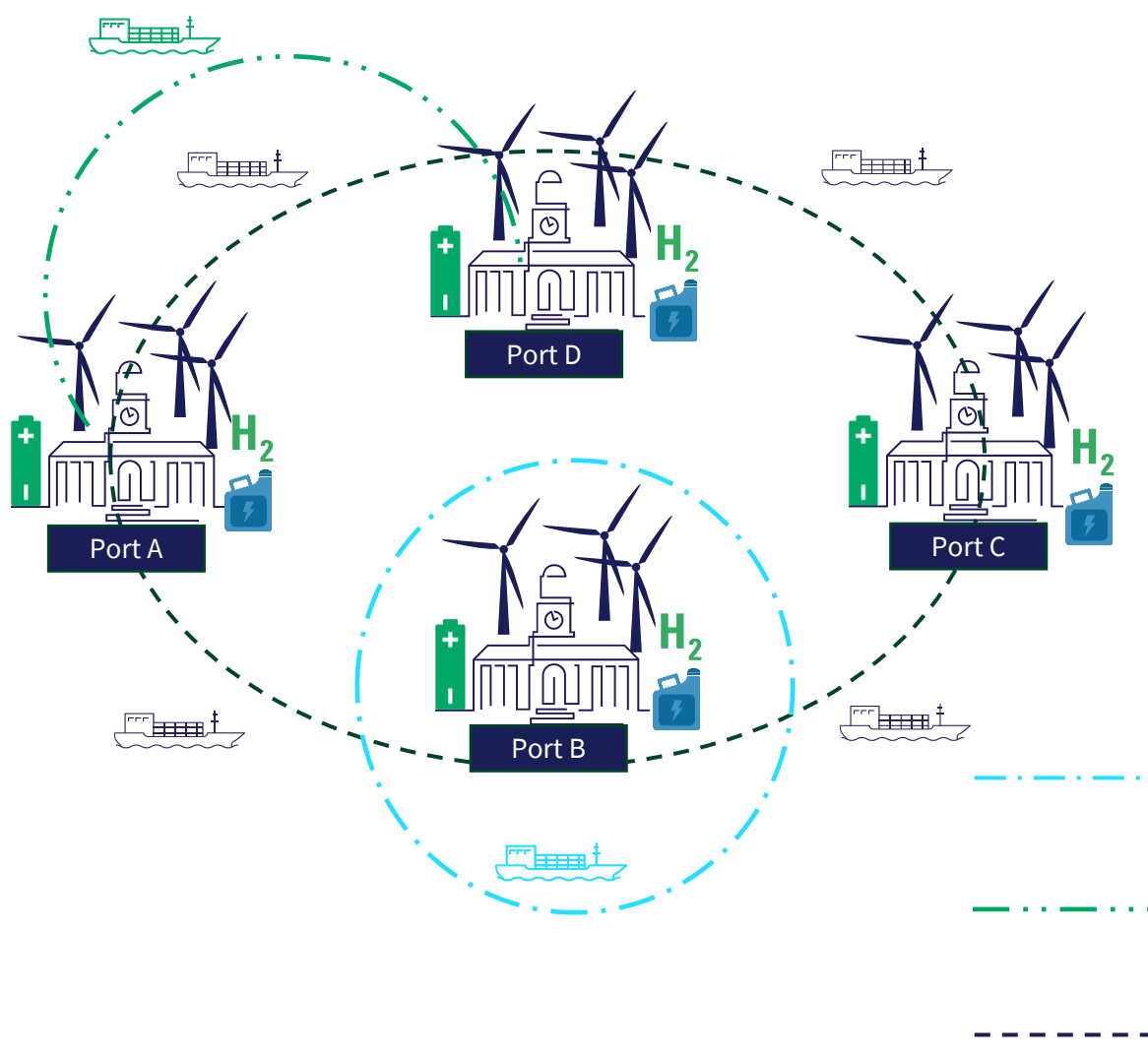
Actors: Port of Oslo, Port of Rotterdam, Samskip



First short sea container vessels running on Hydrogen. Delivery in the third and fourth quarters of 2025.

Green Shipping Corridors

Types of corridors



1st Workshop: Destination Germany
– Discovering the benefits of green shipping corridors



Single Point Corridor: Zero-Emission shipping routes around a **particular location**.

Point to Point Corridor: Single-Route green corridors between **2 ports**.

Network: routes between **3 or more ports**

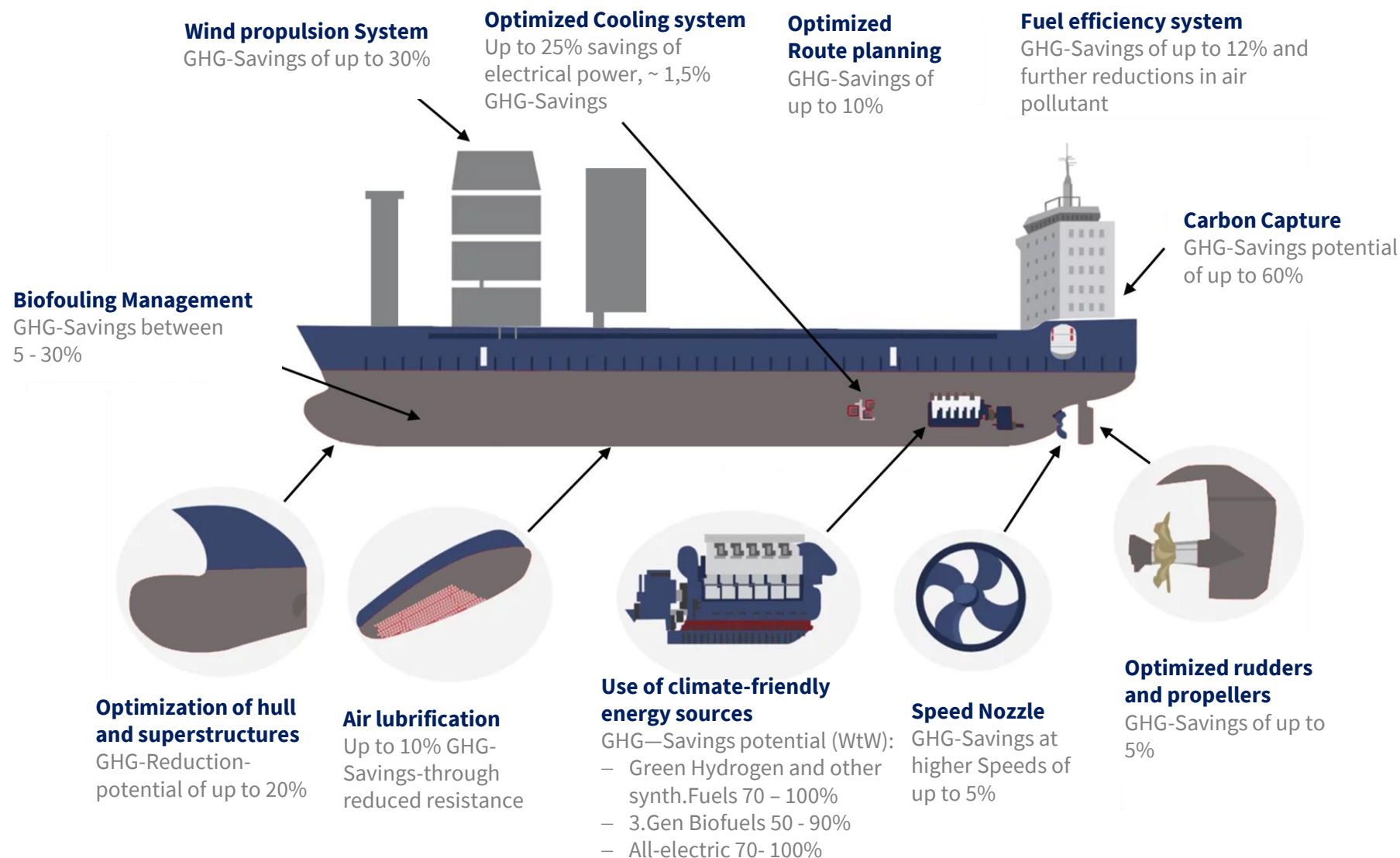


The Technology-Mix Makes it Possible: With energy efficiency and sustainable fuels towards climate-friendly shipping



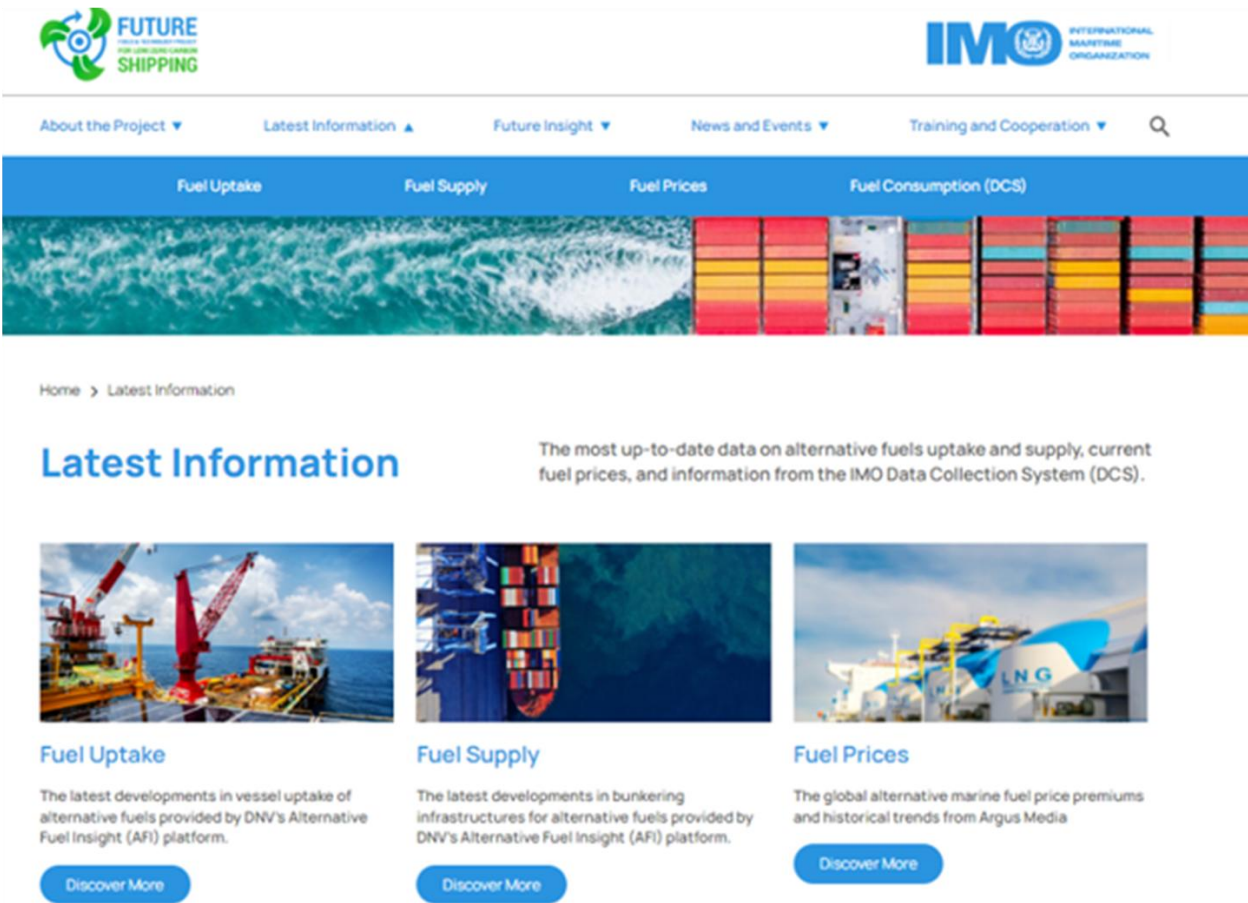
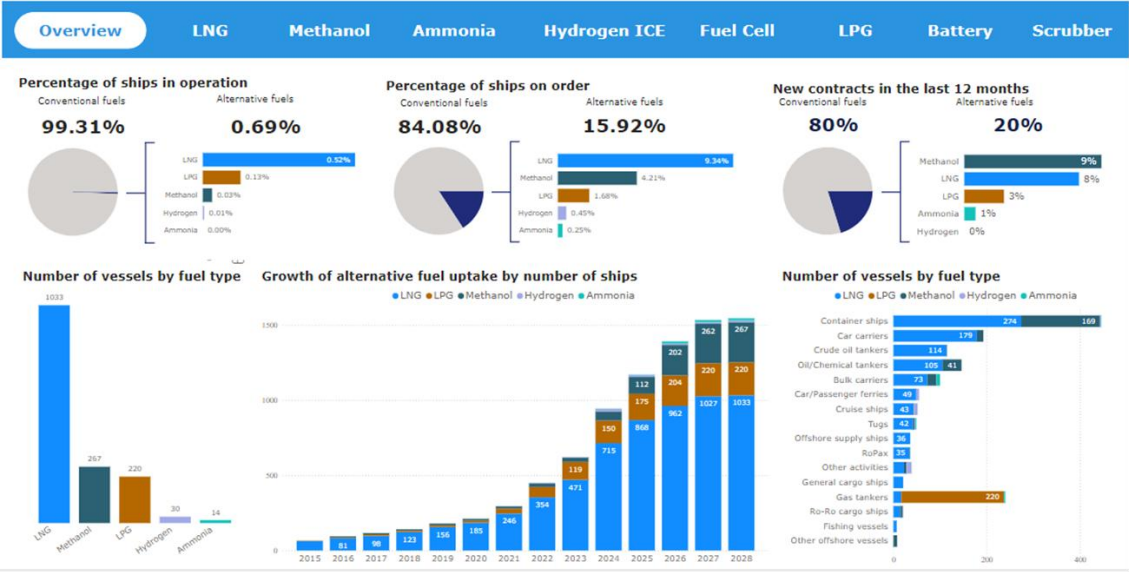
The Technology-Mix Makes it Possible!

With energy efficiency and sustainable fuels towards climate-friendly shipping



Overview of Sustainable Technologies and Fuels

IMO Future Fuels and Technology Project (FFT)



<https://futurefuels.imo.org/>

For information:
futurefuels@imo.org

Source: IMO (2025)



Thank you for your attention!

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